

Kelvion

Plate Heat Exchanger Specification

Customer:

Customer item:

Project:

Date: 16/05/2017

Kelvion Brazed PHE GmbH:

GBS525H-44 (XEB1,XEB2) /P/S 36/34bar

Thermal data for 1 unit(s) in parallel and 1 unit(s) in series

	Side A	Side B	
Media:	Water (liquid)	Water (liquid)	
Heat Exchanged:	48,00		kW
Mass flow:	2062	2063	kg/h
Volume flow:	2,11	2,10	m ³ /h
Temperature Inlet:	80,00	55,00	°C
Temperature Outlet:	60,00	75,00	°C
Calculated pressure drop:	3,151	2,863	kPa
Fill volume:	0,00252	0,00264	m ³
Working pressure inlet:	3,00	3,00	barg

Product properties

Density:	977,7300	980,5200	kg/m ³
Heat Capacity:	4190,20	4187,50	J/kgK
Thermal conductivity:	0,65972	0,65554	W/mK
Viscosity Inlet:	0,000354	0,000504	kg/ms
Viscosity Outlet:	0,000466	0,000377	kg/ms

Unit data

Heat transfer area (total / per unit):	2,94	2,94	m ²
Number of plates (total / per unit):	44	44	
LMTD:	5,00		K
k-value:	3265	4377	W/m ² K
Surface margin:	34,06		%
Plate material:	AISI316L		
Soldering material:	Copper		

Flow arrangement:

Internal flow (passes x channels):	1 x 21	1 x 22	
No. of units (par. / ser. / total):	1	1	1
Material Front- and endplate:	Stainless steel		

The connection types and positions are defined in the attached dimension sheet.

Design code:

PED WTT

Please check physical properties, input parameters and pressure drop.